

## MODIS Science Data Support Team (SDST) Meeting Minutes 8/13/93

ATTENDEES: Phil Ardanuy, John Bauernschub, Lloyd Carpenter, Dave Case, Ruiming Chen, John Crocker, Al Fleig, Tom Goff, Paul Hubanks, Ed Masuoka, John Moses, J.J. Pan, Fred Patt, Shahin Samadi, Carl Solomon, Jim Storey, Anand Swaroop

MODIS AIRBORNE SIMULATOR (MAS) METADATA: Paul Hubanks reported that he has processed four days of the ASTEX experiment with the new calibration. He expects to have all ASTEX data reprocessed by the end of August.

Paul noted that the ANSI C compiler was installed on the Indigo machine allowing successful compilation of the new integrated HDF package.

Al Fleig asked Paul to: summarize what metadata is on the HDF tape, consider the impact of including additional metadata, and whether QC information should also be included.

Al Fleig asked Tom Goff to try processing as large a data set of simulated Level 1a in HDF as possible so as to learn how much trouble it is and to gauge the computing resources involved.

Al Fleig asked SDST personnel writing the Operations Concept to consider what metadata the ESDIS should insure is provided with ancillary data products. Jim Storey proffered that standards for the metadata which accompany ancillary data sets exist and will provide a copy of these to Fleig and Masuoka.

MODIS LEVEL 2 PROCESSING SHELL DESIGN AND DEVELOPMENT: J.J. Pan described a prototype table that he and Ruiming Chen developed (by studying six ATBDs) containing ancillary data sets to be used in generating standard products, validation, and QA. He is also preparing a draft for the Level 2 Shell system requirements.

Al Fleig emphasized the need to produce a document soon on shell usage. He also urged us to think about the SRR for the Level 2 Shell Concept. We should state in writing that the beta software which we've asked the Teams to deliver in January will be standalone since neither the PGS Tool Kit nor the MODIS Level 2 Shell will exist by this delivery.

MODIS LAND PROTOTYPE: Ruiming Chen reported that AVHRR Land Cover data arrived on five CD ROM disks. She is waiting for the software that calculates geographic coordinates in order to subset the data from areas of Land Team interest.

GENERAL: Al Fleig stressed the need to review ATBDs in order to reach an organized assessment. They should be checked for compliance with instructions, completeness, structure, and consistency. Consider generic and specific criticisms. Provide feedback for the authors. Do not wait for all ATBDs to arrive to begin the review.

Al Fleig also stressed the need for each member of SDST to present their work in progress. It is vital to the success of the team for everyone to be aware of what others are doing and not merely to get reports on whether a deadline was met.

Al Fleig asked Jim Storey to produce images which show the bow tie effect of the MODIS scan as one moves from the nadir pixel to 55 degrees off nadir.

Al stated that we need to understand SPICE, the JPL navigation package, and what are the implications of using the SPICE kernel for regridding.

Al Fleig said we must get the Hughes PGS requirements document right away so we can review them in time. The RIDS are due September 14.

## ACTION ITEMS

No. Due Date Item

1. 08/13/93 [Tom Goff]. Determine MODIS requirements for metadata on ancillary products. These include Version Number, changes in generating software, etc. STATUS: Open. (Assigned 07/30/93)
2. 08/13/93 [Al Fleig] Speak to Steve Unger on simulation data. Develop an approach for a plan for simulated test data. STATUS: Open. (Assigned 07/23/93)
3. 08/20/93 [Ruiming Chen, J.J. Pan] Develop an ancillary data product document. Use information in ATBDs. Identify what data sets are to be used for: generating standard Data Products, validation, and QA. Identify requirements for second choices in ancillary data sets if an investigator fails to get the desired data on a particular day. STATUS: Open. (Assigned 07/02/93)
4. 09/03/93 [Paul Hubanks & Carl Solomon]. Evaluate the SeaWiFS scheduling algorithm and code to see if it can be applied to MODIS prototyping. STATUS: Open. (Assigned 06/25/93)